Contents Vol. 27, 1989

Thermodynamic calculations on iron-containing sulphide mineral flotation systems, I. The stability of iron-xanthates
X. Wang, K.S.E. Forssberg (Luleå, Sweden) and N.J. Bolin (Boliden, Sweden) 1
Factors affecting the lead–zinc separation at the Grund concentrator
F.J.M. von Reeken (Delft, The Netherlands), J. Lange (Bad Grund, F.R. Germany), J.J.S. Steensma (Delft, The Netherlands) and P.C. Duyvesteyn (Utah, U.S.A.) 21
Analytical evaluation of locked cycle flotation tests
S. Nishimura, H. Hirosue, K. Shobu and K. Jinnai (Saga, Japan) 39
Effect of dissolved lead ions on the ethylxanthate adsorption on sphalerite in weakly acidic media
S.R. Popov, D.R. Vučinić (Belgrade, Yugoslavia), J.W. Strojek and A. Denca (Gliwice, Poland) 51
Application of a probability model for the entrainment of hydrophilic particles in froth flotation
V.M. Kirjavainen (Helsinki, Finland) 63
Particle capture in the matrix of a magnetic separator
J. Svoboda and V.E. Ross (Randburg, South Africa) 75
Effect of galvanic interaction between grinding media and minerals on sphalerite flotation
M.K. Yelloji Rao and K.A. Natarajan (Bangalore, India) 95
Flocculation of sulfides and the role of a complexing agent in it
S. Acar and P. Somasundaran (New York, N.Y., U.S.A.) 111
A procedure for rapid determination of the Bond work index
N. Magdalinović (Bor, Yugoslavia) 125
A simple method of determining contact angles on particles and their relevance to flotation
R.N. Hanning and P.R. Rutter (Sunbury on Thames, Great Britain) 133
The role of metal hydroxides at mineral surfaces in dextrin adsorption, II. Calcopyrite–galena separations in the presence of dextrin
Q. Liu and J.S. Laskowski (Vancouver, B.C., Canada) 147
Column flotation of talc
C.-J. Kho and H.-J. Sohn (Seoul, Korea) 157
Announcements 169
Theoretical aspects of parallel coal processing circuits optimization and M-curve
A.I.A. Salama (Devon, Alta., Canada) 171
Electrochemical aspects of selective bioleaching of sphalerite and chalcopyrite from mixed sulphides
N. Jyothi, K.N. Sudha and K.A. Natarajan (Bangalore, India) 189
Floatability and adsorption of ethylxanthate on sphalerite in an alkaline medium in the presence of dissolved lead ions
S.R. Popov, D.R. Vučinić and J.V. Kačanik (Belgrade, Yugoslavia) 205
Surface contaminants on cassiterite recovered from an industrial concentrator
G.D. Senior (Clayton, Vic., Australia), G.W. Poling and D.C. Frost (Vancouver, B.C., Canada) 221
An evaluation of the flotation response of coals
S.J. Pratten, C.N. Bensley and S.K. Nicol (Shortland, N.S.W., Australia) 243
Investigations of the collision process between particles and gas bubbles in flotation — a

theoretical analysis
H.J. Schulze (Freiberg, D.R. Germany), B. Radoev (Sofia, Bulgaria), Th. Geidel, H. Stechemesser and E. Töpfer (Freiberg, D.R. Germany) 263
Electrochemical effects of mineral–mineral interactions on the flotation of chalcopyrite and sphalerite
M.K. Yelloji Rao and K.A. Natarajan (Bangalore, India) 279
Inclusion shape, mineral texture and liberation
G. Ferrara, U. Preti (Trieste, Italy) and T.P. Meloy (Morgantown, W.Va., U.S.A.) 295
A rotating ring disc electrode study of the oxidation of sulfur(-II) species on gold and sulfide minerals
R. Woods, D.C. Constable (Melbourne, Vic., Australia) and I.C. Hamilton (Footscray, Vic., Australia) 309
Book Review
Reagents in Mineral Technology, by P. Somasundaran and Brij M. Moudgil (Editors) — J.S. Hanson 327